

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/051623

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H01Q15/16 H01Q15/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 920 289 A (JONES THADDEUS M) 6 July 1999 (1999-07-06) column 3, line 39 - column 5, line 57; figures 1,2	1-7
A	----- GB 2 215 523 A (GEN ELECTRIC CO PLC) 20 September 1989 (1989-09-20) page 2, line 19 - page 4, line 9; figures 1,2	5
X	----- EP 0 741 435 A (LORAL SPACE SYSTEMS INC) 6 November 1996 (1996-11-06) column 3, line 47 - column 4, line 7; figures 2a,2b	1
A	----- US 4 693 629 A (BRUINSMA ROBERT F) 15 September 1987 (1987-09-15) abstract; figures 4,5	5



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

18 October 2004

Date of mailing of the international search report

25/10/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Van Dooren, G

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/051623

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5920289	A	06-07-1999	NONE	
GB 2215523	A	20-09-1989	NONE	
EP 0741435	A	06-11-1996	US 5686930 A	11-11-1997
			CA 2164362 A1	06-11-1996
			DE 69603049 D1	05-08-1999
			DE 69603049 T2	23-03-2000
			EP 0741435 A1	06-11-1996
			ES 2132843 T3	16-08-1999
			JP 8307146 A	22-11-1996
US 4693629	A	15-09-1987	NONE	